| <br> | Claims |  |
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|      |        |  |

| Application No. | Applicant(s)    |
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| 10/083,657      | KITCHELL ET AL. |
| Examiner        | Art Unit        |
| Mark Rosenbaum  | 3725            |

| 1 | Rejected | _ | (Thro |
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| Cla      | aim   |  |              | ,  |  | Dat      | <u>e_</u>  | ,        |  |                 |
| l        | -   | 4  |              |  |  |          |  |          |  |                 |
| Final    | Original                                    | 11/10/04   |              |  |  | ŀ        |  |          |  |                 |
| l iE     | ij  | ΙĒ   |              |  |  |          |  |          | ĺ  |                 |
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| ├──      | 4   | N  | _            |  | -  |          | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash$        |
|          | '   | 14   |              |  |  | -        |  | -        | -  |                 |
|          | 2   | Н  | _            | <u> </u>   | <u> </u>   | <u> </u> | _  | _        | _  | Ш               |
|          | 1<br>2<br>3<br>4<br>5<br>6                  | Ш  |              | _  | <u> </u>   |          |  | _        | _  | Ш               |
|          | 4   | Ц  |              |  | <u> </u>   |          | <u>_</u>   |          |  | Ш               |
|          | 5   |  |              | ļ.,.   |  |          |  |          |  |                 |
|          | 6   |  | L            |  |  | L        |  |          | <u> </u>   |                 |
|          | 7   | П  |              |  |  |          |  |          |  |                 |
|          | 8   | П  |              |  |  |          |  | Г        |  | П               |
|          | 9   | $\sqcap$   |              |  |  |          |  |          |  | $\Box$          |
|          | 10  | $\forall$  |              | <del>                                     </del> |  | $\vdash$ | <del>                                     </del> |          | <del>                                     </del> | $\vdash$        |
|          | 11  | +  | -            | <del>                                     </del> | <del>                                     </del> |          |  |          |  | $\vdash$        |
|          | 12  | +  | <del> </del> | -  | $\vdash$   | $\vdash$ | $\vdash$   | -        | -  | $\vdash\vdash$  |
|          | 12  | ├-   | -            | -  |  |          | -  | -        |  | $\vdash$        |
| ļ        | 13  | 12   | <u> </u>     | _  | <del> </del>                                     | $\vdash$ | <u> </u>   | $\vdash$ | <u> </u>   | Н               |
| L        | 14  | N  |              |  | <u> _</u>  | <u> </u> | ļ  | <u> </u> | <u> </u>   | Ш               |
|          | 9<br>10<br>11<br>12<br>13<br>14<br>15<br>16 | N  |              |  | <u></u>  | <u></u>  | <u> </u>   |          |  | Ш               |
|          | 16  | _نا  |              |  |  |          |  |          |  |                 |
|          | 17<br>18<br>19<br>20<br>21<br>22            |  |              |  |  |          |  |          |  |                 |
|          | 18  | Ī  |              |  | Π  |          |  |          |  |                 |
|          | 19  |  |              |  | _  |          |  |          |  |                 |
|          | 20  | 1  | Ε-           | -  |  | $\vdash$ |  |          |  |                 |
|          | 21  | 11-  | -            | $\vdash$   | $\vdash$   |          |  |          |  |                 |
|          | 22  | <b>V</b>   | <u> </u>     | ├-   | <del> </del>                                     | -        | _  |          |  | $\vdash$        |
|          | 22  | 1  | <u> </u>     |  | <u> </u>   | ⊢        |  |          |  |                 |
|          | 23<br>24                                    | راز  |              |  |  | <u> </u> | _  |          |  |                 |
|          | 24  | 1  |              |  | ļ  |          | _  |          | _  |                 |
|          | 25<br>26                                    | 1  | <u>_</u>     |  | _  |          | _  |          |  |                 |
|          | 26  | _  |              | L  |  |          |  |          |  |                 |
|          | 27  | 1  |              |  |  |          |  |          |  |                 |
|          | 28<br>29                                    | V  |              |  | Γ  |          |  |          |  |                 |
|          | 29  | 5  |              |  |  |          |  |          |  |                 |
|          | 30  |  |              |  | <u> </u>   |          |  |          |  | П               |
|          | 31  | -  |              |  | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash$ | <del>                                     </del> | H               |
| <u> </u> | 31<br>32                                    | $\vdash$   |              | $\vdash$   | $\vdash$   | $\vdash$ | $\vdash$   | -        |  | $\vdash$        |
|          | 22  | -  | -            | $\vdash$   | -  | $\vdash$ |  | $\vdash$ | -  | $\vdash$        |
| $\vdash$ | 33  | -  | H            | <u> </u>   |  |          |  | -        | <u> </u>   | Н               |
|          | 34  |  |              | <u> </u>   | ├  | $\vdash$ |  | -        | _  | Н               |
|          | 35  | <u> </u>   |              | <u> </u>   | <u> </u>   | ļ        | <u> </u>   | <u> </u> | L  |                 |
| <u> </u> | 36 <sub>.</sub>                             |  | L.           |  | <u> </u>   | <u> </u> |  |          | L  | Ш               |
|          | _37   | $ldsymbol{ld}}}}}}$ |              |  | _  |          |  |          |  | Ш               |
|          | 38  |  |              |  |  |          |  |          |  |                 |
|          | 39  |  |              |  |  |          |  |          |  |                 |
|          | 40  |  |              | $\Box$   | Г  | Γ        |  | Г        | <u> </u>   |                 |
|          | 41  |  | П            | Γ.   |  |          |  |          | H  | H               |
| <u> </u> | 42  | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$ | _  | $\vdash$ |  | $\vdash \vdash$ |
| <u> </u> | 43  | <del>  -</del>   |              |  | -  | $\vdash$ | —  |          | <del> </del>                                     | Н               |
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|          | 44  |  |              | <u> </u>   | <u> </u>   | _        | <u> </u>   |          | _  | Щ               |
|          | 45  |  | _            | _  | _  |          |  |          | <u> </u>   | Ш               |
|          | 46  |  |              |  | _  |          |  |          |  |                 |
|          | 47  |  |              |  |  | L        |  |          |  |                 |
|          | 48  |  |              |  |  |          |  |          |  |                 |
|          | 49  |  |              | Г  |  |          |  |          |  | П               |
|          | 50  |  |              |  |  |          | -  |          | Н  | Н               |

| Claim       | Τ        |          |          | ĺ        | Dat          | e        |          |              |  | ] [ | Cla   | im        |          |   |   | (  | Dat  | e  |  |              |                 |
|-------------|----------|----------|----------|----------|--------------|----------|----------|--------------|--|-----|-------|-----------|----------|---|---|--|--|--|--|--------------|-----------------|
|             | 4        | Γ        | Ι        | Γ        |              | Γ        |          |              |  | ]   |       |           |          |   |   |  |  |  | Г  | Г            | П               |
| Original    | 11/10/04 |          |          |          |              |          |          |              |  |     | ब्र   | Original  |          |   |   |  |  |  |  |              |                 |
| .   .g      | 1        |          |          |          |              |          |          | İ            |  |     | Final | ij        |          |   |   |  |  |  |  |              |                 |
| 10          | -        |          |          |          | -            |          | 1        |              |  |     |       | 0         |          |   |   |  |  | 1  |  |              |                 |
| 1           | 14       |          |          |          |              |          |          |              |  | 1 1 |       | 51        |          | _ |   |  |  |  | Т  | Г            | П               |
| 2           | 11       |          |          |          |              | _        | _        | <u> </u>     | T  | 1 1 |       | 52        |          |   | _ |  |  | 1  | 1  | Г            | $\Box$          |
| 3           | 11       |          |          |          |              |          |          |              |  | 1 1 |       | 53        |          |   |   |  |  | $\vdash$   | 一  | ┢            | H               |
| 4           | T        |          |          |          |              |          |          |              |  | 1 1 |       | 54        |          |   |   |  | _  | $\vdash$   |  |              | $\Box$          |
|             | 11       |          |          |          |              |          |          |              |  |     |       | 55        |          |   |   | _  | _  | _  |  |              | $\vdash$        |
| 6           | 17       |          |          | _        |              |          | <u> </u> | $\vdash$     |  | 1 1 |       | 56        |          |   |   |  |  |  | $\vdash$   | ┢            | $\Box$          |
| 5<br>6<br>7 | 17       |          | _        |          |              | $\vdash$ | _        |              | $\vdash$   | 1 1 |       | 56<br>57  |          |   |   |  |  | $\vdash$   | <u> </u>   | ┢            | $\vdash$        |
| 8           | 17       |          |          |          |              |          | $\vdash$ |              |  | 1 1 |       | 58        |          |   |   |  |  |  | <u> </u>   |              | П               |
| 9           | 11       |          |          |          | Г            |          |          | T-           | ▮  | 1 1 |       | 59        |          |   | - |  | T  | $\vdash$   | 1  | ·            | Н               |
| 10          | 11       |          | T -      |          |              | _        |          |              | Г  | 1 1 |       | 60        |          |   |   |  | ✝  |  | <b>†</b>   | ┢            | $\vdash$        |
| 11          | 11       |          |          |          |              | <u> </u> |          | <b></b>      |  |     |       | 61        |          |   |   |  |  |  |  |              | Н               |
| 12          | ++       | _        |          | $\vdash$ | $\vdash$     | $\vdash$ | _        | $\vdash$     | Т  | i i |       | 62        | _        |   | _ |  | ✝  |  | $\vdash$   | $\vdash$     | Н               |
| 13          | 1        | 1        |          |          | -            |          |          |              |  |     |       | 63        |          |   |   |  |  |  | $\vdash$   | 一            | Н               |
| 14          | N        | _        | $\vdash$ |          | Т            | $\vdash$ |          |              |  |     |       | 64        |          | _ |   | <del>                                     </del> | ┢  | <del>                                     </del> | <u> </u>   | $\vdash$     | $\vdash \vdash$ |
| 14<br>15    | h        |          | -        | $\vdash$ | ┢            | ┢        | <u> </u> | $\vdash$     |  |     |       | 65        |          |   | _ | $\vdash$   | $\vdash$   | $\vdash$   | <del> </del>                                     | $\vdash$     | $\vdash \vdash$ |
| 16          | 1        |          | $\vdash$ | $\vdash$ | H            | $\vdash$ |          | $\vdash$     |  | 1 1 |       | 66        | $\vdash$ |   |   | $\vdash$   | -  | $\vdash$   | <del> </del>                                     |              | Н               |
| 17          | 11       | -        | <u> </u> |          | $\vdash$     |          | $\vdash$ | _            | $\vdash$   | 1 1 |       | 67        |          | _ | _ | -  | $\vdash$   | <del>                                     </del> | <del>                                     </del> | $\vdash$     | H               |
| 18          | +;-      | -        | -        | $\vdash$ | $\vdash$     |          | -        | $\vdash$     |  |     |       | 68        | $\dashv$ | _ |   | -  | _  |  |  | -            | $\vdash$        |
| 19          | #        | _        | -        |          | ┢            |          |          | ╁            | 1  | i   |       | 69        |          |   |   | -  | $\vdash$   | -  | <del>                                     </del> | -            | $\vdash$        |
| 20          | #        | ┢╌       | -        |          | $\vdash$     | -        | -        | $\vdash$     | ╁  |     |       | 70        |          |   | _ | $\vdash$   | <del>                                     </del> | $\vdash$   |  | -            |                 |
| 21          | +}-      | -        |          |          | $\vdash$     |          |          | $\vdash$     |  | 1   |       | 71        |          |   | - | -  | <del> </del>                                     | <del> </del>                                     | ┢  | $\vdash$     |                 |
| 22          | 1/       | <u> </u> | -        |          | H            | _        |          |              |  | 1 1 |       | 72        |          |   |   | -  |  |  |  |              | $\vdash$        |
| 22<br>23    | ju       | <u> </u> |          |          | $\vdash$     |          |          |              |  | 1 1 |       | 73        |          |   | - | -  | ┢  |  | <del> </del>                                     | -            | $\vdash$        |
| 24          | 1        |          |          |          | $\vdash$     | _        |          | -            | -  | 1   |       | 74        |          | _ |   |  |  |  | $\vdash$   | $\vdash$     | $\vdash$        |
| 25          | 1        |          |          |          | -            | _        |          | $\vdash$     | $\vdash$   | 1   | -     | 75        | $\vdash$ |   | _ |  | ┢  | <del>                                     </del> | -  | $\vdash$     |                 |
| 26          | 7        | -        |          |          |              |          |          | -            | $\vdash$   | 1 1 |       | 76        |          |   |   | -  | -  | $\vdash$   | ⊢  | $\vdash$     |                 |
| 26<br>27    | 1        |          | -        | -        | -            |          |          | -            | -  | 1   |       | 77        | $\dashv$ |   |   | -  | -  |  | ├  | -            | $\vdash$        |
| 28          | W        |          |          | -        |              | _        |          |              |  | 1   |       | 78        |          |   | _ |  | _  |  | ⊢  |              | H               |
| 29          | 5        | -        |          |          |              |          |          | -            | <del>                                     </del> | }   | -     | 79        | $\dashv$ |   |   |  |  |  | ╁.   | -            | $\vdash$        |
| 30          | ŕ        |          |          | -        |              | $\vdash$ | _        |              | $\vdash$   | } } | -     | 80        | -        |   |   |  | ├  | <del> </del> —                                   | <del> </del>                                     | $\vdash$     |                 |
| 31          |          |          | _        | _        | <u> </u>     | $\vdash$ |          | -            |  | }   | -     | 81        | -+       |   |   |  | $\vdash$   | $\vdash$   | ⊢  | $\vdash$     |                 |
| 32          | ╁        |          |          |          | <del> </del> | _        |          |              | -  | } } |       | 82        | $\dashv$ | _ | _ |  | _  | -  | ┢  | -            |                 |
| 33          | +        | -        | $\vdash$ | $\vdash$ | $\vdash$     | _        | $\vdash$ | $\vdash$     | $\vdash$   |     |       | 83        |          | _ |   | -  | $\vdash$   | <del> </del> —                                   | $\vdash$   |              | Н               |
| 34          | +-       |          | $\vdash$ |          |              |          | -        | ┢            | $\vdash$   |     |       | 84        | $\vdash$ |   |   |  |  | -  | $\vdash$   | $\vdash$     | $\vdash\vdash$  |
| 35          | +        | -        | -        | $\vdash$ | $\vdash$     | —        | -        | $\vdash$     | $\vdash$   |     | -     | 85        | $\dashv$ | - |   | -  |  | -  | $\vdash$   | -            | $\dashv$        |
| 36          | +-       |          |          |          |              | <u> </u> | <u> </u> |              |  |     |       | 86        | $\dashv$ |   |   | -  | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     |                 |
| 37          | +-       | $\vdash$ |          |          | -            | <b></b>  | $\vdash$ |              | -  |     |       | 87        | $\dashv$ | _ | _ |  | _  | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$        |
| 38          | +        | $\vdash$ |          | $\vdash$ | $\vdash$     | _        |          |              |  | } } | -     | 88        | $\dashv$ |   | - |  |  | -  | $\vdash$   | -            | $\vdash$        |
| 39          | $\vdash$ |          |          | Н        | $\vdash$     | _        | $\vdash$ | $\vdash$     | $\vdash$   | } } |       | 89        |          |   |   |  | -  | }—   | -  | -            | $\vdash$        |
| 40          | +        | -        | $\vdash$ | $\vdash$ | ├            |          | $\vdash$ |              | <del> </del> -                                   |     |       | 90        |          |   |   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$        |
|             | +        | $\vdash$ | <u> </u> |          | $\vdash$     | _        | $\vdash$ | $\vdash$     | $\vdash$   |     |       |           |          |   |   |  |  |  | <del> </del>                                     | $\vdash$     | Н               |
| 41          | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | —        | $\vdash$ |              | $\vdash$   |     |       | 91        | $\vdash$ |   |   | -  |  |  | <del> </del>                                     | -            | H               |
| 43          | +        | -        |          | -        | $\vdash$     | <u> </u> |          | $\vdash$     | $\vdash$   |     | -     | 93        | $\vdash$ |   |   | <u> </u>   | ├—   | -  | -  | <u> </u>     | Н               |
| 43          | $\vdash$ | $\vdash$ | H        |          | $\vdash$     | _        | $\vdash$ | -            | $\vdash$   |     |       | 93        |          | - |   | -  | <u> </u>   | -  | $\vdash$   | $\vdash$     | $\vdash$        |
| 45          | $\vdash$ | $\vdash$ |          |          | $\vdash$     | <u> </u> | -        |              | $\vdash$   |     |       | 95        | $\dashv$ |   |   |  |  | <u> </u>   | $\vdash$   | $\vdash$     | Н               |
|             | +        | _        |          |          | _            |          | <u> </u> | _            | $\vdash$   |     |       |           |          |   |   |  | <u> </u>   | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$        |
| 46<br>47    | -        |          |          |          | <del> </del> |          | -        | -            |  |     |       | 96<br>97  |          |   |   |  | <del>                                     </del> | -  | ├—   |              | Н               |
| 48          | $\vdash$ |          |          |          | <del> </del> | <u> </u> | $\vdash$ | <del> </del> | _  |     |       |           |          |   |   |  | <u> </u>   | ⊢  | ⊢  |              | $\vdash \vdash$ |
|             | $\vdash$ | -        | _        |          | $\vdash$     |          |          | $\vdash$     | $\vdash$   |     |       | 98        |          | _ |   |  | <u> </u>   | $\vdash$   | $\vdash$   | <del> </del> | $\vdash \vdash$ |
| 49<br>50    | $\vdash$ |          |          |          | ļ            | <b> </b> |          | $\vdash$     | -  |     |       | 99<br>100 | $\vdash$ |   |   |  | Ь—   | -  |  | H            | Н               |
| 30          | Щ        | L        | L        |          | <u> </u>     |          |          | <u> </u>     | <u> </u>   | i L |       | 100       |          |   |   |  | Ц  | <u> </u>   | Щ  | ш            | Щ               |

|       |                                 | _        | <u> </u> |          |          |          |          |              | J        |                 |  |
|-------|---------------------------------|----------|----------|----------|----------|----------|----------|--------------|----------|-----------------|--|
| Cla   | aim .                           | Date     |          |          |          |          |          |              |          |                 |  |
| Final | Original                        |          |          |          |          |          |          |              |          |                 |  |
|       | 101                             | _        |          |          | $\vdash$ | $\vdash$ | _        | _            |          | Н               |  |
|       | 102<br>103                      | $\vdash$ | $\vdash$ |          |          | $\vdash$ |          |              |          | П               |  |
|       | 103                             |          |          |          |          | _        |          |              |          |                 |  |
|       | 104                             |          |          |          |          |          |          |              |          |                 |  |
|       | 105<br>106                      |          |          |          |          |          |          |              |          |                 |  |
|       | 106                             |          |          | <u> </u> |          | _        |          |              |          |                 |  |
|       | 107                             | <u> </u> |          | ļ        |          |          | <u> </u> | <u> </u>     | <u> </u> | $\square$       |  |
|       | 108<br>109                      |          | _        | $\vdash$ | _        |          | $\vdash$ |              |          | $\vdash$        |  |
|       | 110                             |          | $\vdash$ | $\vdash$ | <u> </u> | H        | $\vdash$ | H            | H        | $\vdash$        |  |
|       | 111                             |          | _        | $\vdash$ |          | ├        | ┢        |              |          | -               |  |
|       | 112                             |          |          | Ι.       | $\vdash$ | Н        | $\vdash$ |              |          |                 |  |
|       | 113                             |          |          | $\vdash$ |          |          | ļ        |              |          |                 |  |
|       | 113<br>114                      |          | Γ        | Г        |          |          |          |              |          | П               |  |
| •     | 115                             |          |          |          |          |          | Ľ        |              |          |                 |  |
|       | 116                             |          |          |          |          |          |          |              |          |                 |  |
|       | 117                             |          |          |          |          |          |          |              |          |                 |  |
|       | 118                             |          |          |          | _        |          | <u> </u> |              | <u> </u> |                 |  |
|       | 119                             |          |          |          |          |          |          |              |          |                 |  |
|       | 120                             |          | _        |          |          |          | _        | _            | -        |                 |  |
|       | 121                             |          |          |          |          | _        | _        | _            | -        |                 |  |
|       | 121<br>122<br>123               |          |          | -        |          |          | H        |              | $\vdash$ |                 |  |
|       | 124                             |          |          | -        |          | _        |          | -            |          | $\dashv$        |  |
|       | 125                             |          | $\vdash$ | _        |          |          |          |              |          |                 |  |
| ·     | 126                             |          |          |          |          |          |          |              |          |                 |  |
|       | 127                             |          |          |          |          |          | $\Box$   | $\vdash$     |          |                 |  |
|       | 124<br>125<br>126<br>127<br>128 |          |          |          |          |          |          |              |          |                 |  |
|       | 129<br>130                      |          |          |          |          |          |          |              |          |                 |  |
|       | 130                             |          |          |          |          |          |          |              |          |                 |  |
|       | 131                             |          | <u></u>  |          | L.       |          |          |              |          | Ш               |  |
|       | 132                             |          |          |          |          |          | _        |              | _        |                 |  |
|       | 133<br>134                      |          |          |          |          | _        | <u> </u> | _            | $\vdash$ |                 |  |
|       | 135                             |          | -        | -        | _        |          |          | $\vdash$     |          | $\vdash$        |  |
|       | 135<br>136                      |          | -        | -        |          |          | -        | -            | $\vdash$ |                 |  |
|       | 137                             |          |          |          |          |          |          | _            |          | $\vdash$        |  |
|       | 138                             |          |          |          |          |          |          |              |          |                 |  |
|       | 139                             |          |          |          |          |          |          |              |          |                 |  |
|       | 140                             |          |          |          |          |          |          |              |          |                 |  |
|       | 141                             |          |          |          |          |          |          |              |          |                 |  |
|       | 142                             |          |          |          |          |          |          |              | Ц        | Щ               |  |
|       | 143                             |          | _        |          |          |          | <u> </u> |              |          | Щ               |  |
|       | 144                             |          | _        | <u> </u> | <u> </u> |          | <u> </u> |              |          | $\square$       |  |
|       | 145                             |          |          | _        | H        |          | _        |              | <u> </u> | Щ               |  |
|       | 146<br>147                      | _        | _        | _        |          | <u> </u> | $\vdash$ | <u> </u>     | $\vdash$ | $\vdash \vdash$ |  |
|       | 147                             |          | -        | _        | _        |          | $\vdash$ | <del> </del> | $\vdash$ | $\vdash$        |  |
|       | 149                             |          |          |          | -        |          | $\vdash$ | $\vdash$     |          | $\dashv$        |  |
|       | 150                             | _        |          | _        |          | -        | _        |              |          | $\dashv$        |  |
|       | 130                             |          |          |          | Ц.,      | ш        |          |              |          |                 |  |